ATTACHMENT A (Blast 2 Sequences Results)

ubMed

Entrez

BLAST

OMIM

Taxonomy

Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.2.9 [May-01-2004]

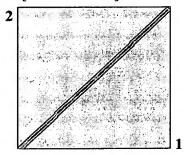
Matrix BLOSUM62 gap open: 11 gap extension: 1 x dropoff: 50 expect: 10.000 wordsize: 3 Filter 🗹 Align

histone H3.3 like protein [Arabidopsis thaliana] Length 136 (1.. 136) **Sequence 1** gi 16324

Sequence 2 gi 30315015 histone H3.3 [Vitis vinifera]

Length 136 (1 .. 136)





NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

Score = 266 bits (679), Expect = 1e-70 Identities = 136/136 (100%), Positives = 136/136 (100%)

Query: MARTKQTARKSTGGKAPRKQLATKAARKSAPTTGGVKKPHRYRPGTVALREIRKYQKSTE 60

MARTKQTARKSTGGKAPRKQLATKAARKSAPTTGGVKKPHRYRPGTVALREIRKYQKSTE

MARTKQTARKSTGGKAPRKQLATKAARKSAPTTGGVKKPHRYRPGTVALREIRKYQKSTE 60 Sbjct:

Histone H3 34

LLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKRVTI 120 Query:

LLIRKLPFORLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKRVTI

Sbjct: 61 LLIRKLPFORLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKRVTI 120

Histone H3 61

121 MPKDIQLARRIRGERA 136 Query:

MPKDIQLARRIRGERA

Sbjct: 121 MPKDIQLARRIRGERA 136

Histone H3 121 ************

0.03 total secs. CPU time: 0.02 user secs. 0.01 sys. secs

Lambda

0.321 0.132 0.367

Gapped

Lambda

0.0410 0.267

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1

Number of Sequences: 1 Number of Hits to DB: 284 Number of extensions: 94

Number of successful extensions: 1

Number of sequences better than 10.0: 1

PubMed Entrez

BLAST

OMIM

Taxonomy

Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.2.9 [May-01-2004]

Matrix BLOSUM62 gap open: 11 gap extension: 1

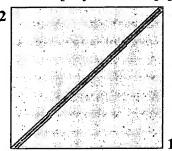
x_dropoff: 50 expect: 10.000 wordsize: 3 Filter Align

Sequence 1 gi 16324 histone H3.3 like protein [Arabidopsis thaliana]

Length 136 (1 .. 136)

Sequence 2 gi 42541263 putative histone H3 [Oryza sativa (japonica cultivar-group)] Length 136 (1 .. 136)





NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

Score = 266 bits (679), Expect = 1e-70 Identities = 136/136 (100%), Positives = 136/136 (100%)

Query: 1 MARTKQTARKSTGGKAPRKQLATKAARKSAPTTGGVKKPHRYRPGTVALREIRKYQKSTE 60

MARTKQTARKSTGGKAPRKQLATKAARKSAPTTGGVKKPHRYRPGTVALREIRKYQKSTE
Sbjct: 1 MARTKQTARKSTGGKAPRKQLATKAARKSAPTTGGVKKPHRYRPGTVALREIRKYQKSTE 60

Query: 61 LLIRKLPFQRLVREIAQDFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKRVTI 120

LLIRKLPFORLVREIAODFKTDLRFQSHAVLALQEAAEAYLVGLFEDTNLCAIHAKRVTI

Query: 121 MPKDIQLARRIRGERA 136

MPKDIQLARRIRGERA

Sbjct: 121 MPKDIQLARRIRGERA 136 Histone H3 121 **************

CPU time: 0.01 user secs. 0.00 sys. secs 0.01 total secs.

Lambda K H

0.321 0.132 0.367

Gapped

Lambda K H

0.267 0.0410 0.140

Matrix: BLOSUM62

Gap Penalties: Existence: 11, Extension: 1

Number of Sequences: 1 Number of Hits to DB: 284 Number of extensions: 94

Number of successful extensions: 1 Number of sequences better than 10.0: 1